108501 D STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT:

Tolerance for Prowl N-(lethylpropyl)-3, 4,-

dimethyl-2, 6-dinitrobenzeneamine on Sunflowers

DATE: February 18, 1977

(0.1 ppm)

FROM:

Toxicology Branch

TO:

Special Registration Section Ms. Libby Zink .

Pesticide Petition 7G1896 Petitioner: American Cyanamid Company

Conclusion:

- Establish temporary tolerance.
- 2. Inform petitioner that a cataract study is needed for this compound.
- 3. Grant EUP.

Substance identification -See title, CL 92553, AC 92553.

Referenced Petition:

4G1451, 5F1556

Review:

No new toxicology studies were submitted, prior reviews, see above petitions and memo of February 22, 1975. The toxicity studies submitted on this chemical and the 4E Formulation are summarized as follows:

Acute tests (technical)

oral LD50rat 1.05 g/kg female 1.25 g/kg male oral LD50mouse 1.34 g/kg female dermal ĽĎ₅₀rabbit 1.62 g/kg male >5 g/kg skin irritation (rabbit) not irritating eye irritation (rabbit) not irritating

Acute tests 4E formulation

oral LD50rats dermal LD₅₀rabbit skin irritation rabbit eye irritation rabbit

3.38 g/kg>2 ml/kg (judged from subacute study) moderate to severe irritant very slight and reversible irritation

To start corner opacity - are review (8/12/77 - Spencer)

Subqcute and long-term tests

21 day dermal (rabbit)

90-day rat feeding study 90-day dog feeding study 2-year rat feeding study 18 months mouse study 3 generation study rats Teratology (rat) Dominantlethal study Effects on male mammary glands No effect for lg/kg/day technical, slight to moderate erythema and edema for 2 ml/kg/day of 4E formulation
NEL 500 ppm
NEL 62.5 mg/kg (2500 ppm).
NEL 500 ppm, no oncogenic effects
NEL 500 ppm, no oncogenic effects
NEL 500 ppm
No effect at lg/kg/day
No effect at 2500 ppm (highest dose)

No effect at 5000 ppm (highest dose)

The ADI for man can be calculated based on long-term studies and is 15 mg/day for a 60 kg man. All tolerances which are established under 180.361 and all pending tolerances are at the 0.1 ppm level, the ADI thus is not exceeded.

Reto Engler, Ph.D.

E/a CEP 2/22/77